

IN THE CLAIMS

Please replace the claims with the following set of claims.

1. (Currently Amended) A golf ball comprising:
a ball material;
a first tag which is attached to said ball material, said first tag having a first antenna
which is coupled to a first ~~diode~~ electrical component, said first antenna being
patterned as a first radial transmission line;
a second tag which is attached to said ball material, said second tag having a second
antenna which is coupled to a second ~~diode~~ electrical component, said second
antenna being patterned as a second radial transmission line, which is arranged
substantially orthogonally relative to said first radial transmission line.
2. (Original) A golf ball as in claim 1 wherein said first tag and said second tag are
substantially independent electrically and provide a substantially spherical reception pattern.
3. (Original) A golf ball as in claim 1 further comprising:
a layer material which encases said first tag and said second tag and said ball material.
4. (Original) A golf ball as in claim 1 wherein a width of said first and second antennas
varies either substantially linearly or substantially exponentially with a length of said first and
second antennas.
5. (Original) A golf ball as in claim 1 wherein said ball material is either a core material
which has a substantially solid spherical shape or an inner shell which has a circular cross-
sectional shape.

6. (Currently Amended) A golf ball as in claim 1 wherein said first electrical component is a first diode and said second electrical component is a second diode and wherein said first diode is disposed at least partially in a first void in said ball material, and said second diode is disposed at least partially in a second void in said ball material.

7. (Original) A golf ball as in claim 1 wherein said ball material has a first template for forming said first antenna and a second template for forming said second antenna.

8. (Original) A golf ball as in claim 1 wherein each of said first and said second antennas has at least one perforation.

9. (Original) A golf ball as in claim 1 wherein each of said first and said second antennas is disposed between curved surfaces in said golf ball and wherein each of said first and said second antennas is designed to receive a radiofrequency (RF) signal of a first frequency and to re-radiate a return RF signal of a second frequency.

10. (Original) A golf ball as in claim 9 wherein said second frequency is a multiple of said first frequency.

11. (Currently Amended) A golf ball as in claim 1 wherein each of said first and said second antennas is disposed between curved surfaces in said golf ball and wherein said tag is detectable with a handheld transmitting/receiving device over a range of at least 20 feet separating said handheld transmitting/receiving device and said tag, and wherein said golf ball has high durability and substantially complies with golf ball specifications ~~of the United States Golf Association.~~

12. (Original) A golf ball as in claim 1 wherein each of said first and said second antennas comprises a seed layer and a plated layer which is coupled to said seed layer.

13. (Currently Amended) A golf ball as in claim 1 wherein said first electrical component is a first diode and said second electrical component is a second diode and wherein said first diode is coupled to said first antenna through a first pair of compressible conductors and wherein said second diode is coupled to said second antenna through a second pair of compressible conductors.

14. (Original) A golf ball as in claim 1 wherein said first antenna comprises a first inductive element and said second antenna comprises a second inductive element.

15. (Original) A golf ball as in claim 1 wherein said golf ball has at least two portions which include a core and a shell.

16. (Currently Amended) A golf ball as in claim 1 wherein said first electrical component is a first diode and said second electrical component is a second diode and wherein an impedance of said first diode is substantially tuned to an impedance of said first antenna at both excitation frequency and re-radiated harmonic frequency.

17. - 53. (Canceled)